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CONFIRMATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. APPLICATION NO. FILING DATE 019519-349 5306 Sumiaki Yamasaki 10:053.617 01:24/2002 EXAMINER 21839 01:03:2005 BURNS DOANE SWECKER & MATHIS L L P LAVILLA, MICHAEL E POST OFFICE BOX 1404 PAPER NUMBER ART UNIT ALEXANDRIA, VA 22313-1404 1775

DATE MAILED: 01:03:2005

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10:03)

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	Application No.	Applicant(ś)
Office Action Summary	10/053,617	YAMASAKI ET AL.
	Examiner	Art Unit
	Michael La Villa	1775
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).		
Status		
 Responsive to communication(s) filed on <u>24 January 2002</u>. This action is FINAL. 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 		
Disposition of Claims		
4) ⊠ Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) 3,4 and 6-11 is/are w 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2 and 5 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	rithdrawn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the I drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) ☒ None of: 1. ☒ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 		
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1, 2, 5, drawn to a hydrophilic polymer material, classified in class 528, subclass 373.
 - II. Claims 3, 4, and 6-11, drawn to a printing plate, classified in class 101, subclass 453.
- 2. The inventions are distinct, each from the other because of the following reasons:
- 3. Inventions of Group I and of Group II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require the use of the claimed polymers of Claim 1. The subcombination has separate utility as an antifogging paint material.
- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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5. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

- 6. During a telephone conversation with Mr. Robert Mukai on 20 January 2004 a provisional election was made with traverse to prosecute the invention of Group I, claims 1, 2, and 5. Affirmation of this election must be made by applicant in replying to this Office action. Claims 3, 4, and 6-11 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Objections

8. Claim 5 is objected to because of the following informalities: The colon following the word "support" in line 1 is improper. Appropriate correction is required.

Claim Rejections - 35 USC § 112

- 9. The following is a quotation of the second paragraph of 35 U.S.C. 112:
- 10. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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- 11. Claims 1, 2, and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 12.1. Regarding Claim 1, it is unclear what is the structure of the claimed polymerization unit. Particularly, it is unclear what subscripts "x" and "y" denote. Their respective components are said to range from 100 to 1 mole percent and 0 to 99 mole percent, respectively, and to add to a total of 100 mole percent. Do the "x" and "y" components have any structural interrelationship? What is meant by denoting them a "polymerization unit". Is the "polymerization unit" an empirical formula of one portion of the claimed polymer?

Claim Rejections - 35 USC § 102

- 13. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- 14. A person shall be entitled to a patent unless -
 - (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 15. Claims 1 and 2 are rejected under 35 U.S.C. 102(a) as being anticipated by Kawai Osamu JP 2001-131445. Kawai Osamu teaches a polymer hydrophilic coating material, which polymer is comprised of polymerization units and which polymer is linked to colloidal silica particles by the claimed silane terminal coupling group. See Kawai Osamu (paragraphs 12, 15-17, 22, and 31). The polyethylene(meta) acrylate satisfies the claimed polymerization unit structure and the formulae 4, 6, 7, and 8 satisfy the claimed silane terminal coupling group.

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Claim Rejections - 35 USC § 103

16. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 17. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 18. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kawai Osamu JP 2001-131445. Kawai Osamu teaches a polymer hydrophilic coating material, which polymer is comprised of polymerization units and which polymer is linked to colloidal silica particles by the claimed silane terminal coupling group. See Kawai Osamu (paragraphs 12, 15-17, 22, and 31). The polyethylene(meta) acrylate satisfies the claimed polymerization unit structure and the formulae 4, 6, 7, and 8 satisfy the claimed silane terminal coupling group. Kawai may not explicitly teach polymers of the claimed molecular weight, but does teach that effective polymers obtain the claimed molecular weight. It would have been obvious to one of ordinary skill in the art at the time of the invention to fabricate

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the coatings of Kawai Osamu with polymers of the claimed molecular weight since Kawai Osamu teaches that polymers of those weights form effective paints.

Allowable Subject Matter

19. Claim 5 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims. None of the reviewed prior art nor prior art of record teaches or suggests the subject matter of Claim 5. Particularly, a lithographic printing plate base having a support that is coated with a layer of solid particles whose surfaces are bonded to hydrophilic polymer compounds of Claim 1 is not taught or suggested.

CONCLUSION

- 20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael La Villa whose telephone number is (571) 272-1539. The examiner can normally be reached on Tuesday, Thursday, and alternating Fridays.
- 21. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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22. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael La Villa 21 December 2004 Callle